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10 CONSERVATION CONGRESS and
11 KLAMATH FOREST ALLIANCE,

NO. CIV. S-07-2764 LKK/KJM

12 Plaintiffs,

13 v.

O R D E R

14 UNITED STATES FOREST SERVICE,

15 Defendant.

16 _____/

17 Plaintiffs Conservation Congress and Klamath Forest Alliance
18 have challenged the United States Forest Service's proposed Pilgrim
19 Vegetation Management Project in the Shasta-Trinity National
20 Forest. In an order filed May 13, 2008, the court resolved the
21 parties' cross motions for summary judgment. Conservation Cong.
22 v. U.S. Forest Serv., 555 F. Supp. 2d 1093 (E.D. Cal. 2008). After
23 granting plaintiffs' motion in part, the court "enjoin[ed] the
24 Pilgrim project and remand[ed] the matter to the agency for further
25 action consistent with [that] order." Id. at 1110.

26 The Forest Service moves for relief from that order. The

1 court resolves the matter on the papers and after oral argument.
2 For the reasons stated below, the Forest Service's motion is
3 granted and the injunction is dissolved.

4 **I. Background**

5 The court previously described the Pilgrim proposal as
6 follows. Neither party disputes that characterization, and the
7 scope of the proposal has not changed.

8 The Pilgrim project lies northeast of the
9 community of McCloud, California. In recent
10 years, the project area has experienced
11 significant tree mortality from insect attacks
12 in overcrowded portions of the forest and from
13 root disease in ponderosa pine. AR^[1] 521.
14 According to defendant, the basic design of
15 the Pilgrim Project contains four components.
16 Id. First, the project will thin forest
17 stands that are overcrowded and in which trees
18 face over-competition for water and nutrients.
19 Id. Second, the project will remove dead and
20 dying trees from certain stands in order to
21 control the spread of disease and infestation
22 and allow the stands to regenerate. Id.
23 Third, in connection with this sanitation
24 harvest, the project will remove smaller,
25 dense understory trees that act as fuel
26 ladders to reduce the likelihood of
catastrophic fires. AR 521-22. Fourth, the
project will also remove overtopping conifers
to allow oak and aspen stands currently being
lost due to over-competition to reestablish
themselves. AR 522.

The vegetation management treatments will take
place on approximately 3,800 acres. AR 166.
Specifically, the project will, among other

23 ¹ The court previously cited to the administrative record as
24 "AR." In the present motion, the Forest Service has submitted a
25 supplemental administrative record containing documents considered
26 or produced by the agency after judgment was entered. The court
refers to the prior record as the "Administrative Record" or "AR"
and to the new record as the "Supplemental Administrative Record"
or "SAR."

1 things, undertake the following: commercial
2 thinning and sanitation harvest on 3,100 acres
3 of assertedly overstocked coniferous stands,
4 regeneration treatment in 415 acres of
5 diseased and insect-infested stands and
6 replanting with conifer seedlings, and
7 restoration of 275 acres of dry meadows by
8 removal of encroaching conifer trees. AR 155.
9 With respect to the regeneration treatment on
10 the 415 acres, the otherwise applicable
11 standard of retaining 15% of the largest green
12 trees (the "15% GTR" standard) will not be met
13 on 255 acres, because defendant maintains that
14 there are not enough disease-free trees to
15 meet the standard. Id.

16 Conservation Cong., 555 F. Supp. 2d at 1097 (footnotes omitted).

17 Pursuant to the Forest Service's obligations under the
18 National Environmental Policy Act, 42 U.S.C. §§ 4321-4370f ("NEPA")
19 and the National Forest Management Act, 16 U.S.C. § 1600 et seq.
20 ("NFMA"), the Forest Service prepared an Environmental Impact
21 Statement ("EIS") for the Pilgrim project.² The EIS was required
22 "to estimate the effects of [the proposed project] on fish and
23 wildlife populations." Conservation Cong., 555 F. Supp. 2d at
24 1101. The court interpreted the EIS as having used a "proxy-on-
25 proxy" approach in an attempting to meet this obligation. Rather
26 than estimate effects on all species directly, the Forest Service
identified five "assemblages" of multiple species, and selected an
individual species that would serve as the proxy for the health of
each assemblage. This species was referred to as the "management

² Available at [http://www.fs.fed.us/nepa/
project_content.php?project=4254](http://www.fs.fed.us/nepa/project_content.php?project=4254) (click "Final Environmental Impact
Statement [includes appendices and maps]") (last visited Sept. 5,
2010).

1 indicator species" or "MIS." Then, rather than predict the effects
2 the project would have on indicator species directly, the Forest
3 Service used habitat as a proxy for the indicator species' health.

4 The court held that this analysis was inadequate with respect
5 to mule deer, the species used to represent the "open and early
6 seral" and "multi-habitat" assemblages, and the red-breasted
7 nuthatch, the species used to represent the "late seral" and "snag
8 and down log" assemblages. Id. at 1103-04. For these species, the
9 Forest Service had not shown "an accurate and reliable correlation
10 between habitat health and species health," so it was inappropriate
11 to use the former as a proxy for the latter. Id. at 1101-04. The
12 court therefore enjoined the project and remanded to the Forest
13 Service.

14 On remand, the Forest Service completed a supplemental
15 environmental impact statement ("SEIS").³ The Forest Service now
16 moves for relief from that injunction under Fed. R. Civ. P.
17 60(b)(5). The Forest Service contends that the SEIS provides
18 additional data and analysis demonstrating that habitat is an
19 appropriate proxy for mule deer and red-breasted nuthatch
20 populations. The Forest Service also contends that the governing
21 statutes, regulations, and forest plans permit the Forest Service
22 to monitor habitat directly, dispensing with the proxy-on-proxy
23 approach. Plaintiffs oppose this motion.

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25 ³ Available at [http://www.fs.fed.us/nepa/
26 project_content.php?project=4254](http://www.fs.fed.us/nepa/project_content.php?project=4254) (click "Final Supplemental
Environmental Impact Statement - January 2010") (last visited Sept.
5, 2010).

1 **II. Standard**

2 **A. Standard for a Fed. R. Civ. P. 60 Motion for Relief from a**
3 **Judgment**

4 Fed. R. Civ. P. 60(b)(5) provides that a party may obtain
5 relief from a court order when "the judgment has been satisfied,
6 released, or discharged . . . or applying it prospectively is no
7 longer equitable." See Rufo v. Inmates of the Suffolk County Jail,
8 502 U.S. 367 (1992). The party seeking the modification bears the
9 burden of proving that a significant change of circumstances
10 warrants the modification of the prior order. Id.; Bellevue Manor
11 Associates v. United States, 165 F.3d 1249, 1255 (9th Cir. 1999).
12 In this situation, the proposed modification must be tailored to
13 the changed circumstance. Bellevue Manor, 165 F.3d at 1255.
14 Alternatively, the modification may be made if the party seeking
15 it shows that "enforcement of the decree without modification would
16 be detrimental to the public interest." Rufo, 502 U.S. at 384.

17 **B. Standard for Review of Agency Action under 5 U.S.C. § 706(2)**

18 In reviewing whether the SEIS has satisfied the prior order
19 and renders prospective application thereof inequitable, the court
20 again applies the standard for review of agency action contained
21 in the Administrative Procedure Act ("APA").

22 The APA authorizes the court to set aside agency action that
23 is "arbitrary, capricious, an abuse of discretion, or otherwise not
24 in accordance with the law." 5 U.S.C. § 706(2)(A). An agency
25 decision is arbitrary or capricious where the agency "relied on
26 factors Congress did not intend it to consider, entirely failed to

1 consider an important aspect of the problem, or offered an
2 explanation that runs counter to the evidence before the agency or
3 is so implausible that it could not be ascribed to a difference in
4 view or the product of agency expertise." Lands Council v. McNair,
5 537 F.3d 981, 987 (9th Cir. 2008) (en banc) (quotations omitted).
6 The agency "must articulate a rational connection between the facts
7 found and the conclusions reached." Earth Island Inst. v. U.S.
8 Forest Serv., 442 F.3d 1147, 1157 (9th Cir. 2006) (citing Midwater
9 Trawlers Co-op v. Env'tl. Def. Ctr., 282 F.3d 710, 716 (9th Cir.
10 2002)).

11 This standard is especially appropriate when reviewing factual
12 determinations that implicate an agency's scientific expertise.
13 Ariz. Cattle Growers' Ass'n v. U.S. Fish & Wildlife, BLM, 273 F.3d
14 1229, 1236 (9th Cir. 2001). Even for scientific questions,
15 however, a court must intervene when the agency's determination is
16 counter to the evidence or otherwise unsupported. See, e.g.,
17 Sierra Club v. U.S. Env'tl. Prot. Agency, 346 F.3d 955, 962 (9th
18 Cir. 2003), amended by 352 F.3d 1187 (9th Cir. 2003) (rejecting
19 agency's factual conclusion about cause of air quality exceedance).

20 **III. Analysis**

21 **A. Statutory and Regulatory Background**

22 NFMA imposes various substantive obligations on the Forest
23 Service, including the obligation to "provide for diversity of
24 plant and animal communities based on the suitability and
25 capability of the specific land area in order to meet overall
26 multiple-use objectives." 16 U.S.C. § 1604(g) (3) (B).

1 NFMA sets forth two levels of "procedures" to be used in
2 meeting this obligation. Lands Council, 537 F.3d at 988. The
3 Forest Service must develop general plans for land management and
4 ensure that individual projects comply with the statute and plans.⁴

5 **1. Forest Plans**

6 At the more general level, the Forest Service adopts Land and
7 Resource Management Plans. "These plans operate like zoning
8 ordinances, defining broadly the uses allowed in various forest
9 regions, setting goals and limits on various uses . . . but [the
10 plans] do not directly compel specific actions." Citizens for
11 Better Forestry v. U.S. Dep't of Agric., 341 F.3d 961, 966 (9th
12 Cir. 2003). Two such plans cover the Pilgrim project. One is the
13 Northwest Forest Plan, which pertains solely to the northern
14 spotted owl and spans many national forests. The court previously
15 held that the Pilgrim project EIS's discussion of the northern
16 spotted owl was adequate, and plaintiffs present no arguments
17 relating to the northern spotted owl in opposition to the present
18 motion. Accordingly, the Northwest Forest Plan is not at issue
19 here. The second is the Shasta-Trinity National Forest Land and
20 Resource Management Plan, referred to hereinafter as the "Shasta
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24 ⁴ A third and more general level of procedures is NFMA's
25 requirement that the Forest Service promulgate regulations
26 implementing NFMA. Citizens for Better Forestry v. U.S. Dep't of
Agric., 632 F. Supp. 2d 968, 970 (N.D. Cal. 2009) (citing Citizens
for Better Forestry v. U.S. Dep't of Agric., 341 F.3d 961, 965 (9th
Cir. 2003)).

1 Forest Plan.”⁵

2 The Shasta Forest Plan directs the Forest Service to perform
3 extensive periodic “monitoring,” including monitoring of various
4 wildlife characteristics. The monitoring plan calls for various
5 types of wildlife monitoring, including “validation” monitoring,
6 which is conducted every ten years “to determine if changes are
7 needed in management practices . . . to provide adequate protection
8 to wildlife,” Shasta Forest Plan at 5-16, AR 4306; “effectiveness
9 monitoring” which reports every five years on the “management
10 indicator assemblages,” id.; and various types of “implementation
11 monitoring” on various timeframes, including monitoring to “ensure
12 that management requirements and standards and guidelines are being
13 met or exceeded with on-the-ground activities,” Shasta Forest Plan
14 at 5-15, AR 4305.⁶

15 **2. Project-Level Studies**

16 NFMA also mandates management of national forests at the
17 “project” level. Ecology Center v. Castaneda, 562 F.3d 986, 990
18 (9th Cir. 2009). “Projects” include “permits, contracts,
19 cooperative agreements, and other instruments for occupancy.”
20 Inland Empire Pub. Lands Council v. U.S. Forest Serv., 88 F.3d 754,

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22 ⁵ Available at [http://www.fs.usda.gov/Internet/
FSE_DOCUMENTS/fsm9_008103.pdf](http://www.fs.usda.gov/Internet/FSE_DOCUMENTS/fsm9_008103.pdf), [http://www.fs.usda.gov/
Internet/FSE_DOCUMENTS/fsm9_008111.pdf](http://www.fs.usda.gov/Internet/FSE_DOCUMENTS/fsm9_008111.pdf), and
23 http://www.fs.usda.gov/Internet/FSE_DOCUMENTS/fsm9_008045.pdf.
24 (last accessed Sept. 6, 2010).

25 ⁶ The court reiterates its previous characterization of this
26 monitoring plan as “rather inscrutable.” Conservation Cong., 555
F. Supp. 2d at 1099.

1 757 (9th Cir. 1996) ("Inland Empire") (quoting 36 C.F.R. §
2 219.10(e)). Under this scheme, individual project proposals must
3 comply with NFMA's statutory requirements, NFMA's implementing
4 regulations, and the forest plan or plans encompassing the project
5 site. 16 U.S.C. § 1604(i), Lands Council, 537 F.3d at 989. The
6 Forest Service uses NEPA's EIS process to determine whether a
7 proposed project will satisfy these requirements. Inland Empire,
8 88 F.3d at 757. In an EIS, the acting federal agency must describe
9 a reasonable range of alternatives for action, the predicted
10 environmental consequences of each, and the reasons underlying the
11 agency's selection of one action over the others. Under the
12 applicable NFMA regulations, the Forest Service's assessment must
13 be based on the "best available science." Ecology Ctr., 562 F.3d
14 at 990 (citing 36 C.F.R. § 219.35(a) (2001); 69 Fed. Reg. 58,057
15 (Sept. 29, 2004)).⁷

17 ⁷ The court previously did not decide whether 1982 or 2000
18 version of the regulations governed. Conservation Cong., 555 F.
19 Supp. 2d at 1098. The Ninth Circuit has subsequently explained
20 that the 2000 regulation's "best available science" requirement
21 governs, such that the superceded requirements of the 1982
22 regulation apply "only to the extent [that] they were incorporated
23 into the [applicable] Forest Plan." Ecology Ctr., 562 F.3d at 990-
24 91.

21 Here, plaintiffs argue that the Forest Service is *also* bound
22 by the 1982 regulation, because the Shasta Forest Plan must have
23 implicitly incorporated it. Absent such a incorporation,
24 plaintiffs argue, "the court would have to find that the [Shasta
25 Forest Plan] was out of compliance with the governing Forest Plan
26 regulations for 15 years." Pls.' Opp'n at 8. Plaintiffs are
incorrect. Projects and management are governed by statute,
regulations, and the applicable forest plan. Lands Council, 537
F.3d at 989. Thus, the court need not assume that the plan
implicitly but completely restated all obligations as they stood
at the time the plan was adopted.

1 Much confusion in this case stems from plaintiffs' conflation
2 of monitoring with prediction. Monitoring looks to conditions as
3 they currently exist. The Forest Service may determine the present
4 status of wildlife by directly surveying wildlife populations, or
5 by using a heuristic such as proxy-on-proxy monitoring. The EIS,
6 on the other hand, is necessarily a prediction, albeit one that is
7 informed by past monitoring. See SEIS L-26, SAR 1102 (explaining
8 that the EIS's analysis of the proposal's effects "must be *informed*
9 *by*" monitoring data) (emphasis added). Because the project here
10 is essentially a modification of habitat, the EIS must predict the
11 ways in which the anticipated changes to habitat will change
12 wildlife populations and viability. One way to do so is to use a
13 simple proxy-on-proxy methodology, predicting that changes in
14 species health will mirror the changes in habitat. Inland Empire,
15 88 F.3d 754, 761-63. Alternatively, factors other than habitat may
16 be incorporated into the prediction. Gifford Pinchot Task Force
17 v. U.S. Fish & Wildlife Serv., 378 F.3d 1059, 1066 (9th Cir. 2004)
18 (prediction prepared pursuant to the Endangered Species Act used
19 habitat as a proxy, but also "[took] into account non-habitat
20 factors, including competition from other species, forest insects,
21 and disease."). Indeed, as with use of proxy-on-proxy for
22 monitoring, the Forest Service may not predict the project's
23 effects solely by referring to future habitat if the relationship
24 between habitat and species population is unexplained. Native
25 Ecosystems Council v. Tidwell, 599 F.3d 926, 936 (9th Cir. 2010)
26 (rejecting use of proxy-on-proxy to predict project's effects where

1 MIS had previously declined despite preservation of habitat and the
2 Forest Service failed to "adequately discuss" this fact).

3 The court understands plaintiffs to argue that because of
4 uncertainty as to the relationship between habitat trends and
5 population trends, it is impossible to make an informed prediction
6 of the project's effects absent a direct survey of the present
7 populations of the MISs. See Tidwell, 599 F.3d at 933. It is
8 nonetheless logically impossible to provide in the EIS, as
9 plaintiffs further demand, "monitoring information . . . of the
10 effects of the sale on the relevant MIS." Compl. ¶ 31.

11 **B. The Supplemental EIS's Analysis of the Pilgrim Project**

12 At issue here is whether the SEIS appropriately evaluated the
13 likely impacts of the proposed action and demonstrated that the
14 action will comply with the Forest Service's obligation to "provide
15 for diversity of plant and animal communities." 16 U.S.C. §
16 1604(g) (3) (B).

17 The SEIS adopts a five-step process for "analyzing project
18 effects to management indicator assemblages." SEIS L-4, SAR 1077.

19 These steps are

20 1. Identifying which management indicator
21 assemblages have habitat that would be either
22 directly or indirectly affected by the project
alternatives; these assemblages are
potentially affected by the project.

23 2. Disclosing the LRMP forest-level or
24 bioregional-level monitoring requirements for
this subset of forest management indicator
assemblages.

25 ////
26 ////

1 3. Analyzing project-level effects on
2 management indicator assemblage habitats or
3 habitat components for this subset.

4 4. Discussing the forest scale habitat trends
5 and/or the bioregional population trends of
6 representative species for this subset.

7 5. Relating project-level impacts on
8 management indicator assemblage habitat to
9 habitat at the forest scale and/or to
10 population trends of representative species of
11 the affected assemblages at the forest or
12 bioregional scale.

13 Id. Beginning with step one, "management indicator assemblage" is
14 a term defined in the Shasta Forest Plan. Shasta Forest Plan 3-24,
15 AR 4109. The assemblages are "groups of wildlife associated with
16 vegetative communities or key habitat components." Id. The plan
17 names nine such "wildlife assemblages," which are named after
18 certain habitat characteristics. Id. The plan provides a brief
19 summary of the habitat characteristics associated with each
20 assemblage together with a non-exhaustive list of vertebrates
21 represented by the assemblage.⁸ Plaintiffs do not challenge the
22 Forest Service's determination as to which assemblages will be
23 affected by the Pilgrim project. The four at issue in the present
24 motion are the "multi-habitat," "snag and down log," "late seral,"
25
26

⁸ In adopting the Shasta Forest Plan, the Forest Service listed the specific individual species associated with each assemblage, including individual species suggested for use as indicators for the broader assemblage. Pls.' Opp'n Ex. B (Chapter III of the final EIS for the Shasta Forest Plan, explicitly incorporated into the plan at 3-14, AR 4109).

1 and "openings and early seral wildlife assemblage[s]."⁹

2 In the second step, the SEIS discussed Shasta Forest Plan's
3 monitoring plan. In the present motion, the parties' argument
4 concerning this plan and the SEIS's summary thereof solely pertain
5 to whether the Forest Service could have predicted impacts on
6 wildlife using methods other than the one actually used here. That
7 question is not properly before the court.

8 The third and fourth steps in the SEIS's analysis describe the
9 proposed project and the effects the project will have on habitat,
10 including the degree to which the project will shift habitat from
11 one assemblage type to another. For example, areas of the project
12 designated for "regeneration harvest" will be transformed from
13 "late seral" and "snag and down logs" habitat types to "open and
14 early seral" habitat. SEIS L-17, SAR 1093. Plaintiffs do not
15 challenge this aspect of the SEIS. C.f. Idaho Sporting Cong. v.
16 Rittenhouse, 305 F.3d 957, 967 (9th Cir. 2002) (rejecting use of
17 proxy-on-proxy analysis where the Forest Service has inaccurately
18 categorized and tallied habitat).

19 Finally, the fifth step "analyze[s] the habitat components of
20 each management indicator assemblage within the context of an
21 example species." SEIS L-20, SAR 1096. These species are the mule
22 deer, red-breasted nuthatch and white-breasted nuthatch. For each,

23
24 ⁹ A fifth assemblage, for "hardwoods," will also be affected
25 by the Pilgrim project. The court previously found the Forest
26 Service's analysis of this assemblage, as represented by the white-
breasted nuthatch, to be adequate. Conservation Cong., 555 F.
Supp. 2d at 1104. Plaintiffs do not raise any arguments pertaining
to the hardwood assemblage here.

1 the SEIS summarized the current condition of the habitat
2 characteristics used by the species, the effects the proposed
3 action and the various alternatives would have on habitat
4 characteristics important to the species, cumulative effects
5 relating to habitat, trends in habitat, and trends in species
6 abundance. Based on this information, the SEIS reached conclusions
7 regarding the project's likely effects on the three example
8 species.

9 Thus, the Forest Service predicted changes to habitat,
10 predicted the effect that those changes would have on three species
11 identified as representatives of the various assemblages, and used
12 this analysis to inform its prediction of the effects the project
13 would have on the collections of species represented by the
14 assemblages. This method of analysis bears, at the very least, an
15 uncanny resemblance to the proxy-on-proxy method. Nonetheless, the
16 Forest Service argues that it did *not* engage in proxy-on-proxy
17 analysis. It argues that the SEIS's analysis of effects on species
18 did not simply assume that 'x acres of habitat = y numbers of
19 species,' instead incorporating some additional information. The
20 Forest Service argued that it therefore analyzed impacts on habitat
21 components and that it separately analyzed impacts on species.
22 See, e.g., Def.'s Reply at 1. While the Ninth Circuit has labeled
23 an apparently similar analysis as proxy-on-proxy, the label is
24 unimportant. See Gifford Pinchot Task Force, 378 F.3d at 1066.
25 The question is whether the relationship between habitat and
26 species health was such that the Forest Service's use of habitat

1 in this case was proper. As the court explains below, in light of
2 the additional analysis and information presented in the SEIS, the
3 court concludes that it was.¹⁰

4 **1. Mule Deer**

5 The prior EIS observed that mule deer populations were
6 generally in decline. Conservation Cong., 555 F. Supp. 2d at 1103
7 (citing AR 494). It described various authorities that attributed
8 the decline to loss of habitat, but the EIS also acknowledged that
9 others, including organizations discussed by plaintiffs, attributed
10 this decline to an increase in predation. The initial EIS
11 concluded that “[c]urrently, the available data is not sufficient
12 to conclude the causes of the decline [in mule deer abundance].”
13 Id. (quoting AR 494). Because the Forest Service stated that it
14 was not possible to determine whether the past decline in deer
15 abundance were caused by the decrease in habitat, the prior EIS had
16 not shown that habitat was sufficiently correlated with species
17 health to support the use of proxy-on-proxy analysis in predicting
18 the project’s effects on assemblages represented by mule deer. Id.
19 at 1103-04.

20 In the SEIS, the Forest Service provides additional discussion
21 of the relationship between mule deer abundance and habitat. The
22

23 ¹⁰ The Forest Service further argues that, contrary to what
24 was done here, “[i]t would have been wholly appropriate . . . if
25 the Forest Service had ended its analysis with consideration of
26 potential Project effects on [assemblage] habitat, alone.” Def.’s
Mem. at 11. Because that counterfactual hypothetical is not before
the court, any discussion of said approach would be an advisory
opinion.

1 SEIS explains that "open and early seral" habitat within the Shasta
2 Trinity National Forest is decreasing, largely by growing into
3 "late seral" habitat, and that mule deer populations are also
4 decreasing, both in two geographic monitoring areas overlapping the
5 project area and statewide. SEIS 16-20, SAR 1039, 1043. Whereas
6 the previous EIS stated that the cause of the population decline
7 was unknown, the SEIS quotes studies by the California Department
8 of Fish and Game concluding that the long-term statewide decline
9 in deer abundance is "due largely to long-term declines in habitat
10 quality." SEIS 18, L-28, L-30, SAR 1041, 1104, 1106. The SEIS
11 explains the relationship between habitat and deer abundance as
12 being dominated by the availability of forage, SEIS 18, SAR 1041,
13 although the SEIS acknowledged the need for cover habitat as well,
14 SEIS L-20, SAR 1096.

15 The SEIS also specifically rejects the hypothesis that
16 pressure from predators is the primary cause of mule deer decline.
17 The SEIS acknowledges that the Mule Deer Foundation takes a
18 contrary view, and that one study in the Sierra Nevada, which
19 apparently considered deer generally, found that slightly over half
20 (50.5%) of fawns succumbed to predators in their first year. SEIS
21 21, SAR 1044. The SEIS took the view, however, that fawns were
22 made vulnerable to predators because of "resource stress,"
23 including poor maternal nutrition and lactation. SEIS 18, SAR
24 1041. Similarly, the California Department of Fish and Game
25 concluded that although multi-state studies indicated that mountain
26 lions were the primary predator, those studies "suggest[ed] that

1 mountain lion predation did not regulate . . . deer populations.”
2 SEIS L-31, SAR 1107 (quotation omitted). For this reason, the SEIS
3 concludes that predation is in part a symptom of the underlying
4 habitat pressures. Id.

5 The Forest Service acknowledges that the issue is complex.
6 Plaintiffs take issue with the Forest Service’s statement in its
7 brief that the Forest Service “believes . . . that habitat loss,
8 rather than predation, is the more likely cause of the deer’s
9 population decline.” Def.’s brief at 12. This statement does not
10 demonstrate a concession that the data is too inadequate to support
11 a useful prediction.¹¹

12 Finally, as noted above, the SEIS does not use acres of
13 habitat as an unadorned proxy for predicted deer populations. The
14 SEIS instead looks to particular habitat characteristics. The SEIS
15 acknowledges that the present ratio of forage to cover habitat
16 would ordinarily be “excellent” and that the project will shift
17 this ratio to favor forage. The SEIS further states, however, that
18 a countervailing trend in the project area is the transformation
19 of forage to cover through growth of the forest and that the poor
20 quality of forage habitat in the project area may limit the utility
21 of presently available forage. SEIS L-21, L-26, SAR 1097, 1102.

22
23 ¹¹ The court’s prior decision rested on the Forest Service’s
24 statement that the available data were insufficient to support a
25 conclusion, and the Forest Service has predictably responded by
26 stating that the data are in fact sufficient. The court is wary
of inviting agencies to overstate their confidence, claiming
certainty when there is doubt. As explained in the body of this
order, plaintiffs have not demonstrated that this is what occurred
here.

1 The SEIS went on to conclude that “[n]either cover nor forage
2 *quantity* are limiting factors in this area. Forage *quality* and
3 water availability are limiting factors and are unlikely to change
4 given the project’s implementation.” SEIS L-23, SAR 1099 (emphases
5 in original). Thus, the SEIS concluded that although mule deer
6 were limited by forage and that the project would increase the
7 acreage of forage habitat, this increase was unlikely to
8 significantly benefit mule deer. SEIS L-32, SAR 1108. The SEIS
9 concluded that the project would not meaningfully alter trends in
10 mule deer population. Id.

11 Plaintiffs have not challenged (or even acknowledged) the
12 Forest Service’s findings regarding the interplay of habitat and
13 predation or the importance of water and forage quality rather than
14 mere acreage of forest habitat. Accordingly, the court cannot find
15 that the Forest Service’s findings regarding the project’s effects
16 on mule deer were arbitrary or capricious.

17 **2. Red-Breasted Nuthatch**

18 The SEIS, like the EIS, discusses the red-breasted nuthatch
19 to illustrate effects on “snag and down log” and “late seral”
20 assemblages. In the prior order, the court observed that both of
21 these habitat types had been increasing. Conservation Cong., 555
22 F. Supp. 2d at 1104 (citing AR 505, 511). Red-breasted nuthatches
23 populations, however, revealed conflicting trends. In the project
24 area, there was a statistically insignificant increase. In nearby
25 locations, there had been insignificant decreases as well as a
26 significant increase. Range wide, there was a statistically

1 significant increase in population. Id. The EIS itself
2 acknowledged that in light of these results, “it is hard to
3 conclude that there is any significant relationship between forest
4 wide increases in late seral assemblage habitat type and population
5 trends for the red-breasted nuthatch.” Id. (quoting AR 505).
6 Accordingly, the court found proxy-on-proxy analysis to be
7 inappropriate. Id.

8 As with mule deer, the Forest Service now retreats from its
9 earlier statement of uncertainty regarding observed trends in
10 habitat and red-breasted nuthatch population. Unlike with mule
11 deer, however, the Forest Service has itself collected additional
12 data in order to clarify the issue, including two years of direct
13 surveys of red-breasted nuthatch populations within the project
14 area. SAR 1501-44. These surveys demonstrated red-breasted
15 nuthatches’ ongoing presence in the project area, with no
16 meaningful change in population between the two years. Id., c.f.
17 Tidwell, 599 F.3d at 933.

18 The Forest Service has also explained its earlier statement
19 that it was difficult to find a correlation between changes in
20 local habitat and direct *observations* of changes in local
21 population. In essence, the Forest Service argues that the
22 observations are unreliable, such that the Forest Service concludes
23 that local habitat is correlated with *actual* changes in population.
24 The Forest Service bases this conclusion on the statements that
25 data over broader geographic scales is much more reliable, given
26 the transitory nature of the birds, that this data indicates an

1 increase in population, and that there is not evidence of factors
2 that would cause local population trends to differ from the broader
3 trends. SEIS 32, 42-43, SAR 1054, 1065-66.

4 Although a pre-requisite to proxy-on-proxy analysis (or
5 similar methods) is a correlation between habitat and population,
6 the agency need not demonstrate this correlation specifically using
7 studies conducted in the project area. More broadly, NFMA
8 generally does not require "on the ground" analysis to validate
9 modeling predictions. Lands Council, 537 F.3d at 994 (overruling
10 Ecology Ctr. v. Austin, 430 F.3d 1057 (9th Cir. 2015) and narrowly
11 construing Lands Council v. Forester of Region One of the U.S.
12 Forest Serv., 395 F.3d 1019, 1036 (9th Cir. 2005). Of course, even
13 when there is a generally recognized relationship, there can be
14 reason to believe that the general relationship is inapplicable to
15 a specific site, such that reliance on the general relationship is
16 inappropriate. Tidwell, 599 F.3d at 931-36. This court's prior
17 order is not inconsistent with the Ninth Circuit's subsequent
18 decisions in Lands Council and Tidwell. The prior order rested on
19 the Forest Service's own statement that trends in local habitat and
20 observations of population were not "significant[ly] relat[ed],"
21 AR 505, rather than the lack of location-specific data per se. The
22 Forest Service has since explained that, despite some trends in
23 local observation, it believes that local populations are
24 increasing, such that habitat remains correlated with actual
25 population.

26 Plaintiffs identify no specific fault with the above. They

1 simply note the difficulties inherent in securing population data
2 for mobile species such as red-breasted nuthatches, re-assert that
3 local observation data do not correlate with local changes in
4 habitat, and suggest that for some other indicator species it might
5 be possible to correlate local observations of population with
6 habitat (or, presumably, demonstrate that habitat and populations
7 were not correlated). These arguments are unpersuasive. The
8 Forest Service must use the "best available" science, which will
9 sometimes still be imperfect. Here, although the red-breasted
10 nuthatch does not lend itself to collection of location-specific
11 population data, plaintiffs have not demonstrated that any superior
12 species was available. The court previously rejected plaintiffs'
13 argument that either the northern spotted owl or black bear would
14 have been a better indicator species, notwithstanding the fact the
15 Shasta Forest Plan recommends these species but not the red-
16 breasted nuthatch for monitoring. Conservation Cong., 555 F. Supp.
17 2d at 1105, 1105 n.11; Pls.' Opp'n, Ex. A, at 12.

18 Having clarified the analysis of past monitoring data, the
19 SEIS predicts impacts on red-nuthatches, and thus on the "snag and
20 down log" and "late seral" wildlife assemblages in a manner similar
21 to the treatment of mule deer. The project will affect some
22 habitats of both types through thinning, but in these areas the
23 habitat will continue to provide the habitat characteristics relied
24 on by nuthatches, including "soft snags," in excess of levels
25 mandated by the Shasta Forest Plan. SEIS 28, 35, SAR 1051, 1058.
26 The project will convert some areas of late seral and snag and down

1 log habitat to open and early seral habitat, removing from those
2 areas soft snags and other habitat characteristics used by red-
3 breasted nuthatches for nesting. Id. The SEIS concludes that
4 these areas will nonetheless provide forage likely to be used by
5 the species and that this change is not of a magnitude that will
6 not harm the species. Id. In a final parallel to the mule deer
7 analysis, the SEIS concludes that the particular habitat
8 characteristic limiting red-breasted nuthatch populations in the
9 project areas is a characteristic that will not be altered by the
10 project, the availability of water. SEIS 29, 35, 45; SAR 1052,
11 1058, 1068. For these reasons, the SEIS concludes that the project
12 "will not alter or contribute to existing forest-wide habitat or
13 population trends for the red-breasted nuthatch." SEIS L-50; SAR
14 1126. Other than the arguments discussed above, plaintiffs do not
15 challenge this analysis.

16 For these reasons, the court holds that the Forest Service's
17 findings regarding the project's effects on the red-breasted
18 nuthatch and associated wildlife assemblages were neither arbitrary
19 nor capricious.

20 **C. Best Available Science**

21 Finally, plaintiffs argue that the SEIS did not use the best
22 available science. This argument was not presented in plaintiffs'
23 complaint or litigated in the prior motions, presumably because
24 plaintiffs contended that the original EIS was not subject to this
25 requirement, whereas all parties agree that the SEIS is. The
26 court's prior order did not decide whether the Forest Service's use

1 of habitat in the EIS constituted best available science, although
2 the court rejected plaintiffs' arguments that certain species would
3 provide better indicators than the species selected by the Forest
4 Service. Conservation Cong., 555 F. Supp. 2d at 1099 n.4, 1105,
5 1105 n.11.

6 The Forest Service has explained the reasons for its decision
7 to use habitat to monitor and predict effects for forest management
8 on species, and has concluded that method reflects the best
9 available science. AR 3111, SAR 1013. The justifications for use
10 of habitat data include the lack of fluctuation over short time
11 scales, credibility, amenability to remote sensing, and importance
12 of habitat in informing the Forest Service's management of habitat
13 itself. AR 3111. Plaintiffs have not demonstrated that this
14 method of analysis is "outdated or flawed." Ecology Ctr. v.
15 Castaneda, 574 F.3d 652, 659 (9th Cir. 2009) (citing Trollers Ass'n
16 v. Gutierrez, 452 F.3d 1104, 1120 (9th Cir. 2006)). The Forest
17 Service relied on a range of scientific studies, a scientific
18 method previously upheld by the Ninth Circuit, and explained the
19 reasons for choosing this method. Plaintiffs have not
20 demonstrated, in light of the deference owed to the agency, that
21 any better science is available. For these reasons, the court
22 concludes that the Forest Service relied on the best available
23 science. Id.

24 **IV. Conclusion**

25 For the reasons stated above, the court ORDERS as follows:

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1. Defendant's motion for relief from judgment (Dkt. No. 61) is GRANTED.

IT IS SO ORDERED.

DATED: September 14, 2010.


LAWRENCE K. KARLTON
SENIOR JUDGE
UNITED STATES DISTRICT COURT